

# Area and Perimeter of Composite Shapes (I)

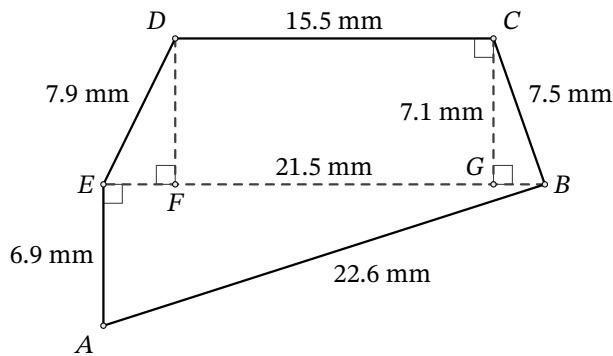
Name: \_\_\_\_\_

Date: \_\_\_\_\_

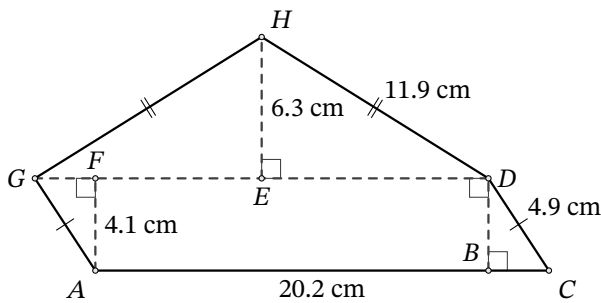
Score: \_\_\_\_\_

Calculate the area and perimeter of each figure. Round to the number of decimals in the measurements.

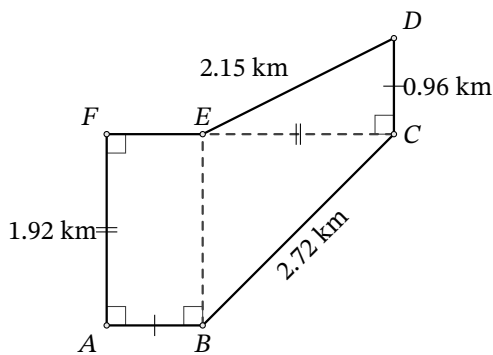
1.



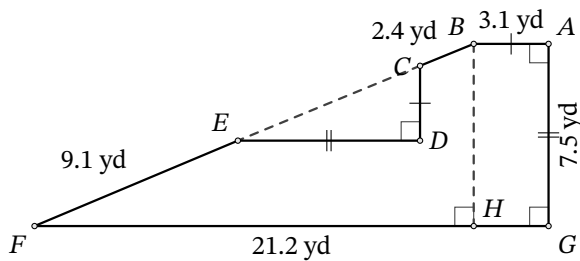
2.



3.



4.



# Area and Perimeter of Composite Shapes (I) Answers

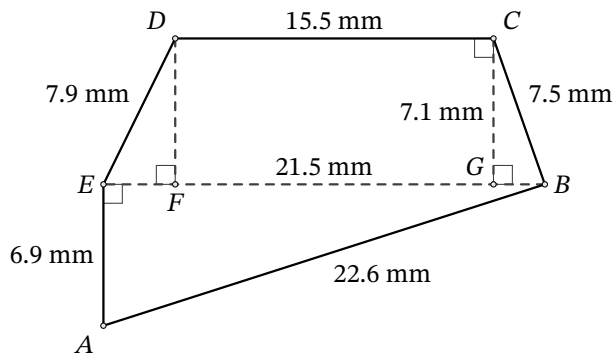
Name: \_\_\_\_\_

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Score: \_\_\_\_\_

Calculate the area and perimeter of each figure. Round to the number of decimals in the measurements.

1.



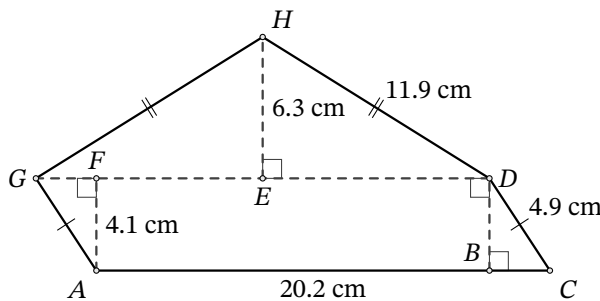
**Area**

$$\begin{aligned} & (\text{Area of } ABE) + (\text{Area of } BCDE) \\ &= \left(\frac{21.5 \times 6.9}{2}\right) + \left(\frac{21.5 + 15.5}{2} \times 7.1\right) \\ &= 74.175 + 131.35 \\ &= 205.5 \text{ mm}^2 \end{aligned}$$

**Perimeter**

$$\begin{aligned} &= AB + BC + CD + DE + EA \\ &= 22.6 + 7.5 + 15.5 + 7.9 + 6.9 \\ &= 60.4 \text{ mm} \end{aligned}$$

2.



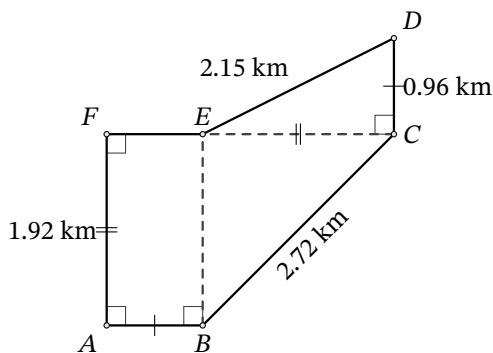
**Area**

$$\begin{aligned} & (\text{Area of } ACDG) + (\text{Area of } DHG) \\ &= (20.2 \times 4.1) + \left(\frac{20.2 \times 6.3}{2}\right) \\ &= 82.82 + 63.63 \\ &= 146.5 \text{ cm}^2 \end{aligned}$$

**Perimeter**

$$\begin{aligned} &= AC + CD + DH + HG + GA \\ &= 20.2 + 4.9 + 11.9 + 11.9 + 4.9 \\ &= 53.8 \text{ cm} \end{aligned}$$

3.



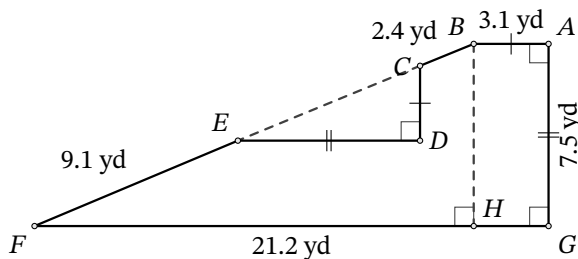
**Area**

$$\begin{aligned} & (\text{Area of } ABEF) + (\text{Area of } BCDE) \\ &= (1.92 \times 0.96) + \left(\frac{1.92 + 0.96}{2} \times 1.92\right) \\ &= 1.8432 + 2.7648 \\ &= 4.61 \text{ km}^2 \end{aligned}$$

**Perimeter**

$$\begin{aligned} &= AB + BC + CD + DE + EF + FA \\ &= 0.96 + 2.72 + 0.96 + 2.15 + 0.96 + 1.92 \\ &= 9.67 \text{ km} \end{aligned}$$

4.



**Area**

$$\begin{aligned} & (\text{Area of } ABFG) - (\text{Area of } CED) \\ &= \left(\frac{21.2 + 3.1}{2} \times 7.5\right) - \left(\frac{7.5 \times 3.1}{2}\right) \\ &= 91.125 - 11.625 \\ &= 79.5 \text{ yd}^2 \end{aligned}$$

**Perimeter**

$$\begin{aligned} &= AB + BC + CD + DE + EF + FG + GA \\ &= 3.1 + 2.4 + 3.1 + 7.5 + 9.1 + 21.2 + 7.5 \\ &= 53.9 \text{ yd} \end{aligned}$$